

Physical Properties of starex Non-Halogen Flame Retardant HIPS NH-1905

Properties at 23°C	Test Method	Test Condition	Unit	Value
Physical Properties				
Specific Gravity	ASTM D792	Natural Color	-	1.10
Melt Flow Index	ASTM D1238	220°C/10kg	g/10min	20
Mold Shrinkage	ASTM D955	-	%	0.4~0.7
Mechanical Properties				
Tensile Strength	ASTM D638	20mm/min	MPa(psi) kgf/cm ²	49(7,100) 500
Flexural Strength	ASTM D790	2.8mm/min	MPa(psi) kgf/cm ²	69(9,200) 650
Flexural Modulus	ASTM D790	2.8mm/min	MPa(psi) kgf/cm ²	2,350(341,000) 24,000
Izod Impact Strength (notched)	ASTM D256	1/8 inch	kgf·cm/cm	8.0
Rockwell Hardness	ASTM D785	R-scale	-	110
Thermal Properties				
Thermal Deflection Temperature (unannealed), 1/4"	ASTM D648	1.8MPa	°F °C	181 83
Vicat Softening Temperature (unannealed)	ISO R 306	B/50	°F °C	201 94
Flammability				
UL 94 Classification	UL94	1.5mm specimen 2.5mm specimen	Recognized Recognized	V-1 V-0

* The above values are only the representatives of natural color specimen, not for guarantee

* last updated : August 30, 2006